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ALTO Compact 110

ALTO®
Why Compromise™

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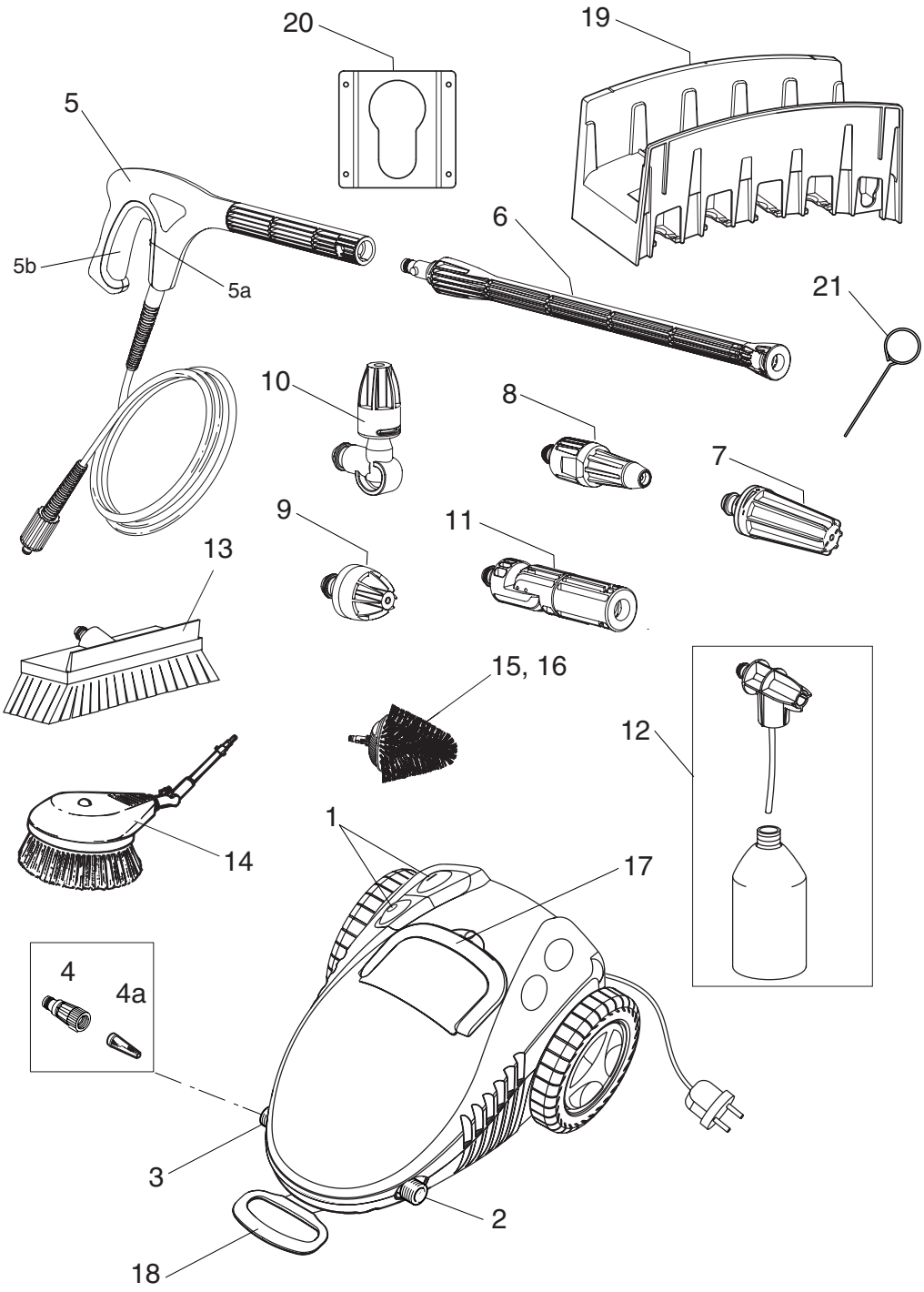
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We congratulate you on your new ALTO High Pressure Washer

We are confident that the new high pressure washer of ALTO will justify your expectations of quick and effective cleaning. Now you have a cleaning device which will facilitate your future cleaning tasks and make them more effective. Many tasks which were previously difficult, can now be solved in a few minutes and with a much better result.

If, contrary to expectations, problems should arise which cannot be remedied by means of the information in section 7.0, the ALTO service organization will be at your disposal.

ALTO is a global concern with a comprehensive knowledge within development and manufacturing of efficient and environmentally friendly cleaning solutions. Our product range comprises cleaning solutions for selected customer groups - from machines for domestic use to big industrial cleaning systems.

The expertise of ALTO is cleaning focusing on the need of the customer. The key word is confidence - we name it Total Cleaning Confidence ™. Our wish is that you as a customers should feel quite confident that the cleaning equipment you buy from us is the most efficient and that it fulfils all of your expectations.

Best regards
ALTO Danmark A/S

Fields of application EN

The applications for this product are domestic cleaning jobs:

Car, motorbike, boat, caravan, trailer, patio/drive/ flagstones, woodwork, brickwork, barbecue, garden furniture etc.

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Model survey EN

1. On/off switches
2. Water outlet pipe
3. Water inlet pipe
4. Water inlet connector and filter
5. High pressure hose with spray handle incl. of trigger with lock
6. Adjustable nozzle
7. TORNADO® PR nozzle
8. POWERSPEED® nozzle (not standard)
9. Car nozzle (not standard)
10. Undercarriage nozzle (not standard)
11. Multiangle adaptor (not standard)
12. Foam sprayer
13. Brush with scraper (not standard)
14. Rotating brush (not standard)
15. Garden brush (not standard)
16. Rim brush (not standard)
17. Carrying handle
18. Pulling handle
19. Wall accessories storage (not standard)
20. Wall hook for PW (not standard)
21. Cleaning needle for nozzle

Specifications: See model tag of machine.

We reserve the right to alter the specifications.

1.0 Preparation EN

Before starting up your high pressure washer, we advise you to carefully read through this instruction manual. Follow all instructions to minimize the risk of injuries when using the machine.

Prior to operation

Before starting up your machine please check it carefully for any defects. If you find any, do not start up your machine and contact your ALTO distributor.

Especially check:

- The insulation of the electric cable should be faultless and without any cracks. If the electric cable is damaged, it should be replaced by an authorized ALTO distributor.

Mains power connection

The following should be observed when connecting the high pressure washer to the electric installation:

- Only connect the machine to an installation with earth connection.
- The electric installation shall be made by a certified electrician.
- It is strongly recommended that the electric supply to this machine should include a residual current device (GFCI).

Extension cable

Extension cables should be of a watertight construction and comply with the below-mentioned requirements for length and cable dimensions.

1,0 mm²	max	12,5	m
1,5 mm²	max	20	m
2,5 mm²	max	30	m

- Cable connections should be kept dry and off the ground.
- Always uncoil the extension cable completely to avoid heat damage to the cable.

Water connection

Connect the high pressure washer by means of the water hose to the water tap (pressure of inlet water, max. 10 bar - temperature of inlet water, max. 50°C). You may use an ordinary 1/2" garden hose of min. 5 m and max. 25 m. Attach the hose using a quick connector.

NOTE: Connection to the public mains according to regulations.

IMPORTANT! Only use water without any impurities. If there is a risk of running sands in the inlet water (i.e. from your own well), an additional filter should be mounted.

Safety precautions

- **WARNING!** High pressure jets can be dangerous. Never direct the water jet at persons, pets, live electrical equipment or the machine itself.
- The operator and anyone in the immediate vicinity of the site of cleaning should take action to protect themselves from being struck by debris dislodged during operation. Wear goggles during operation.
- Never try to clean clothes or footwear on yourself or other persons.
- Do not let children or people who have not read the instruction manual operate the machine.
- Never use the machine in an environment where there could be a danger of explosion. If any doubt arises, please contact the local authorities.
- It is not allowed to clean asbestos-containing surfaces with high pressure.
- This high pressure washer must not be used at temperatures below 0°C.

Safety devices

Locking device on spray handle

The spray handle features a locking device (5a). When the pawl is activated, the spray handle cannot be operated.

Thermal sensor

A thermal sensor protects the motor against overloading.The machine will restart after a few minutes when the thermal sensor has cooled.

2.0 Operating Instructions EN

2.1 Operating facilities

- ON/OFF switches (1).
- Trigger with lock (5a).

2.2 Connection

1. Screw the high pressure hose (5) onto the water outlet pipe (2) by turning it clockwise. Tighten the hose connection by hand only. Do not use a spanner, pliers, or the like. Prior to operating the machine please ensure that the high pressure hose has been completely uncoiled. Whilst the machine is in operation the hose MUST NOT loop.
2. Check that the filter (4a) is mounted in the water inlet pipe (3) and that it is not clocked up.
3. The inlet filter must always be fitted in the water inlet pipe to filter out sand, limestone and other impurities, as they will damage the pump valves. **CAUTION:** Failure to fit the filter will invalidate the guarantee.
4. Screw the water inlet connector (4) onto the water inlet pipe (3).
5. Make sure that the trigger is locked in the Off position (5a) by pulling out the locking lever and locating it on the tab in the handle grip.
6. Mount the nozzle or any other equipment you want to use.
7. Connect the machine to the water and power supplies.

The pressure washer is now ready for operation.

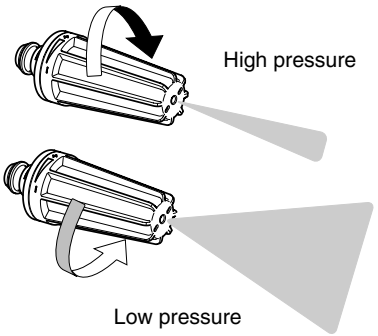
2.3 Start

1. Check that the machine is in horizontal position.
2. Release the trigger lock (5a) .
3. Activate the trigger and let the water run until all air has escaped from hoses and pump.
4. Press the On/Off switch "**I**" (1).

2.4 Operation

1. **The machine must not be operated while hanging on the wall hook for PW (20).**
2. The spray lance is affected by a thrust during operation - therefore always hold it firmly with both hands. **IMPORTANT**: Point the nozzle at the ground.

3. Activate the trigger of the spray handle.
4. Always adjust the distance and thus the pressure of the nozzle to the surface which is to be cleaned. **NOTE:** The spray angle can be adjusted at the TORNADO® PR nozzle (7).



NOTE: Do not cover the machine during operation. If the machine is left or not used for 5 minutes, it must be switched off on the start/stop switch (Press the On/Off switch "**O**".

2.5 End of operation

1. Press the On/Off switch "**O**" (1).
2. Disconnect the plug from the socket.
3. Shut off the water supply and activate the trigger to relieve the machine of pressure.

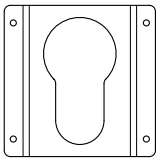
Concerning storage, please refer to section 5.0.

3.0 Accessories EN

3.1 Mounting of wall fittings

Wall hook for PW

Mount the wall hook for your pressure washer on a vertical wall with the big hole at the top (see illustration).

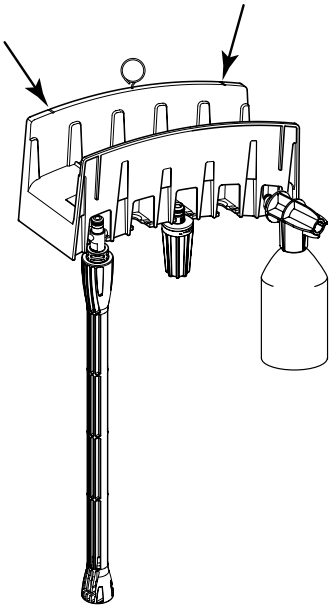


It is important to mount all 4 screws.

Wall accessories storage

Mounting of wall rack:

1. Hold the wall rack against a vertical wall with the holes facing forwards. Use the two drill grooves for marking of the point where the screws should be mounted (see illustration).



2. Mount the screws without screwing them home - the screw head should be approx. 3 mm from the wall.
3. The wall rack can now be mounted over the screws.

Equipment

Only use original accessories.

Nozzles — Attached with the „**Click and Clean**“ connector system.

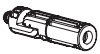
Tornado® PR (7) — Pressure regulated universal nozzle. Max. effect at a distance of approx. 7 cm.

Powerspeed® (8) — Nozzle with rotating jet for stubborn dirt on hard surfaces. Max. effect at a distance of approx. 10 cm.

Car nozzle (9) — Special nozzle for enamelled surfaces. Optimal distance: 30 - 50 cm.

Undercarriage nozzle (10) — 90° angled special nozzle for undercarriage and wheel arches. Integrated guide shoes.

Multiangle adaptor (11) — Adjusted in angles from 0° - 90° for better working posture and cleaning of hard to get at places as for instance barrels or the underside of the lawn mower. Fits all nozzles.



Extension hose — 7 m extension hose increasing the working range.

Brushes (13, 14) — For cars and other surfaces. Available in more shapes.

Tube cleaner — 15 m long tube cleaner for the cleaning of tubes and drains.

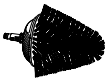
Water-sand-blasting equipment — For removal of paint and rust. Sand available from do-it-yourself shops.

Patio Cleaner — Equipment for quick cleaning of patio/drive/flagstones.

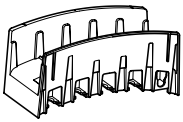
Foam sprayer (13) Equipment for the application of foam. Distance approx. 1 m.

Garden brush (15) Rotating brush for cleaning of wooden surfaces.

Rim brush (16) Rotating brush for cleaning of wheel rims.



Wall accessosries storage (19) Rack for storage of hose, spray handle, nozzles etc.



Detergents

Stone & Wood Cleaner For flagstones, brick- and woodwork. Suitable for moss and algae.

Plastic Cleaner For plastic and synthetic materials such as garden furniture.

Metal Cleaner For cleaning of metal such as garden tools.

Car Combi Cleaner For cars etc. With rinsing wax.

Alu Cleaner For surfaces of aluminium. Applied with an atomizer.

Oil & Grease Cleaner For cleaning of grease and oil on motors for instance. Applied with an atomizer.

Wood Cleaner For cleaning of wooden surfaces incl. of wooden garden furniture.

WARNING! Always disconnect the plug from the socket prior to maintenance or cleaning.
To ensure a long and problem free working life, please take the following advice:

- Wash out water hose, high pressure hose, spray lance and accessories before mounting.
- Clean the connectors of dust and sand.
- Rinse the detergent spraying attachment after use.

Any repair should always be made in an authorised workshop with original spare parts.

4.1 Cleaning of nozzle

A clogging up in the nozzle causes a pump pressure which is too high. This is why cleaning is required immediately.

1. Stop the machine and disconnect the nozzle.
2. Clean the nozzle. **IMPORTANT:** The cleaning tool should only be used when the spray lance is detached!
3. Flush the spray lance backwards with water.

4.2 Cleaning of water inlet filter

Clean the water inlet filter (4a) regularly once a month or more frequently according to use. Carefully loosen the filter with a screwdriver and clean it. Check that it is intact before re-mounting it.

The inlet filter must always be fitted inside the water inlet pipe to filter out sand, limestone and other impurities, as they will damage the pump valves.

CAUTION: Failure to fit the filter will invalidate the guarantee.

4.3 Cleaning of machine vents

The machine should be kept clean so as to let cooling air pass freely through the machine vents.

5.0 Storage EN

The machine should be stored in a frost-free room!
Pump, hose and accessories should always be emptied of water prior to storing as follows:

1. Stop the machine (press the On/Off switch "**O**" and detach water hose and accessory.
2. Restart the machine and activate the trigger. Let the machine run until no more water runs through the spray handle.
3. Stop the machine, unplug and detach high pressure hose.

Should the machine by mistake be frozen, it will be necessary to check it for damage.

NEVER START-UP A FROZEN MACHINE.
Frost damages are not covered by the guarantee!

6.0 Environmental protection

Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be sorted, taken to the local recycling centre and disposed of in an environmentally safe way.

7.0 Trouble shooting guide EN

To avoid unnecessary disappointments, you should check the following before contacting the ALTO service organisation:

Symptom	Cause	Recommended action
Machine refuses to start	Machine not plugged in Defective socket Fuse has blown Defective extension cable	Plug in machine. Try another socket. Replace fuse. Switch off other machines. Try without the extension cable.
Fluctuating pressure	Pump sucking air Valves dirty, worn out or stuck Pump seals worn out	Check that hoses and connections are air tight. Clean and replace or refer to local ALTO distributor Clean and replace or refer to local ALTO distributor.
Motor busses	Low voltage or low temperature	Activate the trigger of the spray handle.
Machine stops	Fuse has blown Incorrect mains voltage Thermal sensor activated Nozzle partially blocked	Replace fuse. Switch off other machines. Check that the mains voltage corresponds to specification on the model tag. Leave the washer for 5 minutes to cool down. Clean the nozzle (see section 4.1)
Fuse blows	Fuse too small	Change to an installation higher than the amp. consumption of the machine. You may try without the extension cable.
Machine pulsating	Air in inlet hose/pump Inadequate supply of mains water Nozzle partially blocked Water filter blocked Hose kinked	Allow machine to run with open trigger until regular working pressure resumes. Check that the water supply corresponds to specifications required (see model tag) NB! Avoid using long, thin hoses (min. 1/2") Clean the nozzle (see section 4.1) Clean the filter (see section 4.2) Straighten out hose.
Machine often starts and stops by itself	Pump/spray handle is leaking	Contact your nearest ALTO Service Centre.
Machine starts, but no water comes out	Pump/hoses or accessory frozen No water supply Water filter blocked Nozzle blocked	Wait for pump/hoses or accessory to thaw. Connect inlet water. Clean the filter (see section 4.2) Clean the nozzle (see section 4.1)
On/off switches stuck	Sand or pebbles wedged between the switch and the cabinet	Use the cleaning needle for nozzle or another thin tool for removing the dirt.

In case problems other than the above occur, please contact your local ALTO distributor.

Customer services (UK only): **ALTO Cleaning Systems Ltd.**
Gilwilly Industrial Estate
Penrith, Cumbria CA11 9BN
Phone: 01 768 868 995

8.0 Warranty conditions EN

ALTO guarantees high pressure washers for domestic use for 2 years. If your high pressure washer or accessories are handed in for repair, a copy of the receipt must be enclosed.
Guarantee repairs are being made on the following conditions:

- that defects are attributable to flaws or defects in materials or workmanship. (wear and tear as well as misuse are not covered by the guarantee).
- that the directions of this instruction manual have been thoroughly observed.
- that repair has not been carried out or attempted by other than ALTO-trained service staff.
- that only original accessories have been applied.
- that the product has not been exposed to abuse such as knocks, bumps or frost.
- that only water without any impurities has been used.
- that the high pressure washer has not been used for rental nor used commercially in any other way.

Repairs under this guarantee include replacement of defective parts, exclusive of packing and postage/carriage. Besides, we refer to your national law of sale.
The machine should be forwarded to one of the service centres of the ALTO organisation with description/specification of the fault.

Repairs not covered by the guarantee conditions will be invoiced. (I.e. malfunctions due to **Possible Causes** mentioned in section **7.0 Troubleshooting guide** of the instruction manual).

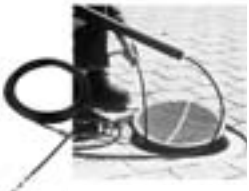
Art. no. 6411150

DA Patio Cleaner
EN Patio Cleaner
DE Patio Cleaner
FR Patio Cleaner
NO Patio Cleaner
SV Patio Cleaner

Art. no. 6410762

DA Roterende børste
EN Rotating brush
DE Rotierende Bürste
FR Brosse rotative
NO Roterende børste
SV Roterande borste

Art. no. 6410766



DA Rørrenser
EN Tube cleaner
DE Rohrreiniger
FR Nettoyeur déboucheur
NO Rørrenser
SV Avlopps-/rørrensare

Art. no. 106411326

DA Fælgbørste
EN Rim brush
DE Felgenbürste
FR Brosse pour jantes
NO Felgbørste
SV Fälgborste

Art. no. 106411325

DA Garden brush
EN Garden brush
DE Gartenbürste
FR Brosse de jardin
NO Hagebørste
SV Garden brush

RECEIPT

xx/xx/2003

ALTO high pressure washer

Total ..... €

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